Homework 5: Informing design decisions

# 1. Planned obsolescence is used to create products with a deliberately limited lifespan. Which one of the following is not a factor in deciding the lifespan of a product: [1]

⬨ Fashion

⬨ Colour

⬨ Available material

⬨ Function

# 2. Manufacturers might consider using recycled material in the construction of a new product.

(a) Identify **three** considerations when sourcing used parts. [3]

(b) Describe **two** benefits to a manufacturer of designing and making a product   
from recycled parts. [4]

# The new product should be responsibly disposed of at the end of its life.

(c) Give **two** ways a company can design a product to improve its recyclability? [2]

# 3. Manufacturers can design products so that can be easily repaired or maintained.

(a) Give **one** design feature that makes a product easier to repair at home. [1]

(b) State **one** advantage and **one** disadvantage to a company of making their products easily repairable by professionals. [2]

(c) Why might it still be cheaper for consumers to purchase a new product rather than having it repaired by a third party? [1]

Total 14 Marks